## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



Contract # 60B98

Sewer Relocation Notes:

A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.

Use the temporary earth retention system is mandatory. Open cut will not be allowed on the north side of the existing 60" sewer.

Portions of the existing abutment and wingwall shall be removed as required for proper installation of Temporary Soil Retention System. Work is included in Removal of Existing Structures. Installation of the Temporary Soil Retention System is mandatory.

See Drainage Plans for additional details.

The Metropolitan Water Reclamation District of Greater Chicago (MWRDGC) shall have 24 hour a day access for heavy equipment to their facilities. Flow from the outfall structures shall not be blocked and shall be maitained at all times. See Special Provisions.

The Contractor shall exercise care when removing the existing 60 inch outfall pipe from the MWRDGC structure. The existing 60 inch pipe is lined and removal of the liner is included in the drainage items.

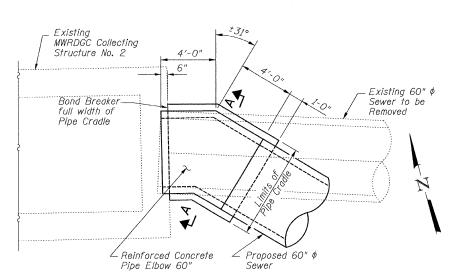
Any concrete removal required from the opening of the MWRDGC structure for installation of the new 60 inch pipe shall be approved by the Engineer. Space between the new 60 inch pipe and the opening shall be filled with nonshrink grout, inside and out. Concrete removal and grout are included in the drainage items.

All work for removing the existing pipes and installing the new pipes is included in the drainage items. All work shall be as approved by the Engineer in the field.

Reinforced Concrete Pipe Elbow 60" shall be in accordance with Article 542.08 of the Standard Specifications. Contractor is responsible for the design and detailing of Reinforced Concrete Pipe Elbow 60". Contractor to Submit design to the Engineer for approval.

## SECTION A-A SHOWING PIPE CRADLE

(Bend and cut reinforcement in field as required)



#4 n(E) bars at 12" cts.

Construction

#4 t(F) bars

at 12" cts.

each side

Optional

## BILL OF MATERIAL

	Bar	No.	Size	Length	Shape
	n(E)	<i>1</i> 6	#4	3′-9"	
	t(E)	9	#4	7′-3"	
	w(E)	14	#4	8'-8"	
*	Reinforcement Bars, Epoxy Coated			Lbs.	170
*	Concrete Structures			Cu. Yd.	4.2
	Temporary Soil Retention System			Sq. ft.	1002

\* \* Roadway Quantity

TEMPORARY SOIL RETENTION SYSTEM. SEWER DETAILS & FOOTING LAYOUT

EMERSON STREET OVER NORTH SHORE CHANNEL (PUBLIC BODY OF WATER) F.A.U. ROUTE 1312 SECTION 0707-B COOK COUNTY STA. 102+84.62 STRUCTURE NUMBER 016-2858

W:\Emerson Street\Structural Dwg's\03- Footing Layout.dgn

\* Driven sheet piling or driven piling not allowed within

- Existing

MWRDGC Collecting

Back of W. Abut.

Sta. 101+77.29

102+00

67'-4"

Structure No. 2

5'-0" of MWRDGC Structure

10/17/2007

DESIGNED JJI

CHECKED SRT

DRAWN JSS

CHECKED SRT

9:03:20 AM

Cut existing

embankment

12'-0"

- Elev. 589.00

Elev. 602.00 Elev. 598.00 Flev. 595.00 . -Existing Prop. Wes

69'-0" Retention System

Ground Surface/

Retention System

Top of Soil

Winawall and Abutment, to be removed Exposed Surface Area Maximum Excavation -Maximum Excavation Line (Bott, Bedding)

28'-0"

Elev.

Flev.

581.1

(Typ.

103+00

214'-8" Back to Back of Abutments

FOOTING LAYOUT

Bollinger, Lach & Associates, Inc.

581.51

5'-0".

8'-0"

and PGL7

581.43

Line (Bott. Pipe) Elev. 581.20 Elev. 581.50 Elev. 580.60 Elev. 580.87

14'-0"

Elev. 580.90 Exist. 60" \phi sewer and end section to be removed, See drainage plans. Maximum Excavation Line (Bott, Pipe Cradle)

ELEVATION C-C (Temporary Soil Retention System-Looking North) See Sheet 1 of 32 for Location of Section C-C

100't Channel Width . € Pier 1 Sta. 102+44.62 of Structure Sta. 103+24.62 Roadway

67'-4"

Back of E. Abut.

Sta. 103+91.95

For pipe bedding requirements, see MWRD General Notes located in Roadway Plans.

8-#4 w(E) bars at 12" cts.

PROPOSED PLAN AT MWRDGC STRUCTURE